Appl. No. 09/770,762
Amdt. dated September 7, 2004
Reply to Office Action of June 4, 2004

PATENT

REMARKS/ARGUMENTS

Claims 1-23 are pending. Claims 1-3, 9, 10, 22 and 26 have been amended. Claims 24, 25, 27 and 28 have been canceled. No new matter has been added.

Claims 1-3 and 8, 10, 13-15, 20-24, and 26-28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chen et la. in view of Mathur et al. Applicants traverse the rejection.

Claim 1 is directed to a communication system having a Web server having, "a first proxy, a first memory, and a plurality of first processes, the first memory having a plurality of first slots, each first slot being assigned to one of the plurality of first processes and configured to store data to be transmitted or received by the assigned first process..." The proxy is a software module, e.g., a communication stub, that is configured to establish a link with another proxy. " The Web server has a plurality of slots for a plurality of processes. Data to be transmitted are stored in the slots to be transmitted, e.g., to various different destinations.

Chen is directed to an information access system and method for archiving Web pages. The Examiner indicated that "first proxy" recited in claim 1 is disclosed at col. 12:59-67. At this section, Chen describes a proxy server 30 rather than the "first proxy." A proxy server is a server that sits between a client application, e.g., a Web browser, and a real server, and it is not a "first proxy" or software module provided within the Web server. Chen also does not disclose "a first memory having a plurality of first slots," in the manner recited. Mathur discloses application program interfaces for a resource-limited environment. Mathur does not remedy the deficiencies of Chen above. Claim 1 is allowable.

Claim 10 is directed to a server in a communication system. The claim recites, "a proxy to provide a communication link with another node in the communication system, the proxy being a software module to form a communication with another proxy residing remotely in another server; a plurality of processes running on the server; a shared memory having a plurality of slots to store data to be transmitted and received by the processes via the proxy; each slot being assigned to a particular one of the process; and a plurality of mark devices, at least one being assigned to each slot to regulate data flow into and out of the slots of the shared memory."

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The references above, alone or in combination, do not disclose the above features. Claim 9 is allowable.

Claim 13 is directed to a method for transferring data in a communication system having a first client and a server, wherein the first client has a first proxy, a first shared memory, and a plurality of first processes, and the server has a second proxy, a second shared memory, and a plurality of second processes. The claim recites, "generating, within one of the first processes, a request to be transmitted to one of the second processes; storing the request into the first shared memory having a plurality of first slots, wherein each of the first slots is assigned to one of the first processes and the request is stored in the first slot assigned to the first process that generated the request; transmitting the data stored in the first slot to the sever via the first proxy; receiving the transmitted request via the second proxy that has a communication link established with the first proxy; storing the received request into the second shared memory having a plurality of second slots, wherein each second slot is assigned to one of the second processes and the received request is stored in the second slot that is assigned to the second process to which the data is directed; and reading the data stored in the second slot." The above references do not disclose these recited features. Claim 13 is allowable.

Claim 22 is directed to a method of transmitting data in a communication system having a plurality of processes running thereon. The claim recites, "generating data using one of the processes running on the communication system; storing the data into a shared memory; and transmitting the stored data to a destination node using a proxy provided in the communication system, wherein the shared memory has a plurality of slots, each slot being assigned to one of the processes, wherein the data stored in the shared memory is stored in the slot assigned to the process that generated the data, wherein the communication system includes a plurality of mark devices that are assigned to each of the slots to regulate the data flow into and out of the slots, wherein the proxy is operable to maintain a plurality of active communication links simultaneously." The above references do not disclose these recited features. Claim 22 is allowable.

Claim 26 is directed to a method of handling data received in a communication system having a plurality of processes running thereon. The method recites, "receiving data

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from a source node via a first proxy provided in a Web server in the communication system, the first proxy being a software module operable to form a communication link with another proxy remotely residing in an executing server; storing the received data into a shared memory; and transmitting the stored data to a process of the executing server to which the data is directed, wherein the shared memory has a plurality of slots, each slot being assigned to one of the processes, wherein the data stored in the shared memory is stored in the slot assigned the process to which the data is directed." The above references do not disclose these recited features. Claim 26 is allowable. Other claims depend from one of the above independent claims and are allowable for at least these reasons.
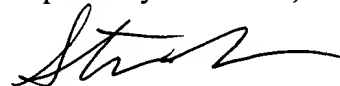
Claim 4-5 and 6-7, 9, 11, 12, 16-19, 25, and 29 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chen and Mathur in view of Lanteigne et al. Applicants traverse the rejection. The above claim depend from the independent claims above and are allowable at least for this reason.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,

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